

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
22 March 2001 (22.03.2001)

PCT

(10) International Publication Number
WO 01/19866 A1(51) International Patent Classification: C07K 14/47,
C12N 9/64, 15/12, C12Q 1/37, A61K 38/48, A61P 19/02,
31/18, 37/00, 37/06, G01N 33/53(74) Agent: GRIFFITH HACK: GPO Bo: 4164, Sydney,
NSW 2001 (AU).

(21) International Application Number: PCT/AU00/01085

(22) International Filing Date:
11 September 2000 (11.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PQ 2762 10 September 1999 (10.09.1999) AU
PQ 5709 18 February 2000 (18.02.2000) AU(71) Applicant (for all designated States except US): THE
UNIVERSITY OF SYDNEY [AU/AU]; Parramatta
Road, Sydney, NSW 2006 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ABBOTT, Catherine,
Anne [AU/AU]; 288 Trafalgar Street, Annandale,
NSW 2038 (AU). GORELL, Mark, Douglas [AU/AU]; 9
Piper Street North, Annandale, NSW 2038 (AU).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BI, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/19866 A1

(54) Title: DIPEPTIDYL PEPTIDASES

(57) Abstract: A novel human dipeptidyl aminopeptidase (DPP8) with structural and functional similarities to DPPTV and fibroblast activation protein (FAP) has been identified and characterized. The novel peptide comprises the sequence ID NO: 1, the amino acid sequences His²⁴GlyTyrSerTyrGlyGlyTyrLeu, Leu¹¹⁶AspGluAsnValHisPheAlaHis, Gln¹⁴⁷ArgHisSerIleArg, Phe²²⁵ValLeuGlnGluGluPhe, or a sequence having at least 60 % homology with, and the substrate specificity of SEQ ID NO:1. A gene encoding the dipeptidyl peptidase and uses of the dipeptidyl peptidase.